| Index of Claims |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|
|                 |  |  |  |  |  |  |  |  |  |  |  |  |

|   | Application No. | Applicant(s) |  |
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|   | 10/625,883      | STAKER ET AL |  |
| Γ | Examiner        | Art Unit     |  |

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| Cla          | aim      |          |                 |   |                 | Date            | <u> </u> |   |                 |           |     | Cla      | im       |                     |          |         | Date                               |                    |                         |           |              | Clain    |                |          |          |         | Da       | ite          |         |         |   |
|--------------|----------|----------|-----------------|---|-----------------|-----------------|----------|---|-----------------|-----------|-----|----------|----------|---------------------|----------|---------|------------------------------------|--------------------|-------------------------|-----------|--------------|----------|----------------|----------|----------|---------|----------|--------------|---------|---------|---|
| _            | <u>a</u> | 4        |                 |   | } }             |                 |          |   |                 |           |     | _        | <u>8</u> |                     |          |         |                                    |                    |                         |           | _            | .        | ا ₅            |          |          |         |          | ł            | 1       |         |   |
| Final        | Original | 7/16/04  |                 |   |                 |                 |          |   |                 |           |     | Final    | Original |                     |          |         | 1 1                                | ı                  | 1 1                     |           | Final        | .        | Orginal        |          |          | 1       |          | ł            |         |         |   |
| 证            | Ç        | 17       |                 |   | l               |                 |          |   |                 |           |     | 证        | Ĕ        |                     |          |         |                                    |                    |                         |           | ΙŢ           | 1 7      | ₹              |          |          | -       |          |              |         |         | 1                                       |
|              |          | <u> </u> |                 |   |                 |                 |          |   |                 | _         |     |          |          |                     |          |         | Ш                                  |                    |                         | _         |              |          |                |          |          | ┙       | ⊥        | $\perp$      |         | ╙       | Ш                                       |
| 1            | 1        | =        | Ш               |   | Ш               |                 |          |   | $\sqcup$        | _         |     |          | 51       | $\Box$              |          | $\perp$ | $\sqcup$                           |                    | 11                      | _         | L_           | _   1    | )1             | $\perp$  |          | $\perp$ | $\perp$  | ᆚ            |         | 上       | Ш                                       |
| 2_           | 2        | Ξ        |                 |   |                 | $\Box$          |          |   | $\perp \perp$   |           |     |          | 52       |                     |          |         | $\perp$                            |                    | $\perp \downarrow$      | _         |              |          | )2             | _        | _        | _       | $\perp$  | Д.           |         | 1       | Ш                                       |
| 3            | 3        | =        |                 | _ |                 |                 | _        |   | $\perp$         |           |     |          | 53       |                     | _        | 4       | $\bot$                             |                    | $\perp \perp$           | _ ::::    |              | 1        | )3             | _        |          | 1       |          | $\bot$       |         | $\perp$ | $\bot$                                  |
| 4            | 4        | =        |                 |   | Ш               | Ц               |          |   | $\sqcup$        | _         |     |          | 54       | $\Box$              |          |         | $\perp \perp$                      | _                  | $\downarrow \downarrow$ | _         | _            | 1        | )4             | _        | _        | _       | _        | $\downarrow$ |         | ╄       | Ш                                       |
| 5            | 5        | =        |                 |   | Щ               |                 |          |   | $\sqcup$        | _         |     |          | 55       |                     | <u>.</u> | 4       | $\downarrow \downarrow \downarrow$ |                    | +                       | _         |              |          | )5             | _        |          | 4       | ┵        | 1            |         | ╀       | $\sqcup$                                |
| 6            | 6        | =        | Щ               |   | Щ               | Ц               | _        |   | $\sqcup$        | _         |     |          | 56       | $\dashv$            | _        | $\bot$  | +                                  |                    | $\perp \perp$           | _         | _            | 1        | )6             | _        |          | 4       | 4        | 4            |         | ╀       | $\sqcup$                                |
| 7            | 7        | Ξ        | $\vdash$        |   | <u> </u>        | $\dashv$        | -        |   | $\vdash$        | —         |     |          | 57       | $\dashv$            |          | 4       | $\dashv$                           |                    | +                       |           | <u> </u>     |          | )7             |          | -        | +       | 4        | +            | 4       | ₩       | $\vdash$                                |
|              | 8        |          | Н               |   |                 | $\Box$          | .        |   | 1               |           |     |          | 58       | -                   |          |         | +                                  |                    | +-+                     | -4        |              | 1        | 8              |          |          | +       | +        | ╀            | +       | ╀       | $oldsymbol{\sqcup}$                     |
|              | 9 5      |          |                 |   | $\vdash$        | $\dashv$        | -        |   | $\vdash$        |           |     |          | 59       | -                   | _        | -       | $\perp$                            | _                  | +                       |           |              | 1        | 9              |          | _        | +       | +        | +            | $\bot$  | +       | ₩                                       |
|              | 10       | $\vdash$ | H               |   | $\vdash \vdash$ | $\dashv$        |          |   | $\vdash$        | $\dashv$  |     | $\vdash$ | 60       | $\vdash$            | +        | +       | +                                  | +                  | ++                      |           | <u> </u>     | +1       | 10             |          | +        | +       | +        | +            | +       | +       | $\dashv$                                |
|              | 11       | $\vdash$ | $\vdash$        | _ | $\vdash \vdash$ | $\dashv$        |          |   | $\vdash$        | $\dashv$  |     |          | 61       | $\vdash$            | +        | +       | +                                  | +                  | ++                      |           | <u> </u>     |          | 11             | $\dashv$ | +        | +       | +        | +            | +       | +       | $+\!\!-\!\!\!\!+$                       |
|              | 12<br>13 | H        | Н               |   | $\vdash$        | $\vdash$        |          |   | $\vdash \vdash$ | $\dashv$  |     |          | 62<br>63 | $\vdash \vdash$     | $\dashv$ | +-      | +                                  | _                  | +-+                     |           | <u> </u>     | 1        | 12<br>13       |          | $\dashv$ | +       | +        | +            | +       | +       | +                                       |
| L            | 14       | ₩        | $\vdash$        |   | $\vdash$        | $\dashv$        | $\dashv$ |   | $\vdash$        | $\dashv$  |     |          | 64       | +                   | +        | +       | +                                  | +                  | ++                      | -         | <u> </u>     |          | 14             | $\dashv$ | +        | +       | +        | +            | +       | +       | +                                       |
|              | 15       | ⊢        | H               |   | $\vdash \vdash$ | $\dashv$        |          |   | ┼┤              | -         |     |          | 65       | $\vdash$            | +        | +       | ┼┤                                 | +                  | ++                      | -         | $\vdash$     | +        | 15             | $\dashv$ | +        | +       | +        | +            | +       | +       | $\dashv$                                |
|              | 16       | ├        | $\vdash \vdash$ |   | ┝               | $\vdash$        | $\dashv$ | _ | ┼┤              | $\dashv$  |     | $\vdash$ | 66       | $\vdash$            | +-       | +-      | ┼┈┤                                | +                  | ++                      | $\dashv$  | $\vdash$     |          | 16             | $\dashv$ | +        | +       | +        | +            | +       | +       | +                                       |
| 8            | 17       | =        | $\vdash$        |   |                 | -               | -        |   | ┼┤              | $\dashv$  |     |          | 67       | $\vdash$            | +        | +-      | ╫                                  |                    | ++                      | $\dashv$  | $\vdash$     | + 1      | 17             | $\dashv$ | +        | +       | +        | +            | +       | +       | +                                       |
| - ۱          | 18       | ┝╾       | Н               |   | $\vdash$        |                 |          |   | +               |           |     |          | 68       | -                   |          |         | +                                  |                    | ++                      | -         |              | +        | 18             | $\dashv$ | +        | +       | ┿        | +            | +       | +       | +                                       |
| 9            | 19       | =        | Н               |   |                 |                 |          |   | ╁┼              | -         |     |          | 69       | -                   | +        | +-      | +                                  | +                  | +                       | -         | _            | +        | 19             | $\dashv$ | +        | +       | +        | +            | +       | +       | +                                       |
| -            | 20       | F        | $\vdash$        |   | $\vdash$        | -               | $\dashv$ |   | ╫               | -         |     |          | 70       | $\vdash$            | +        |         | 1-1                                | +                  | +                       | -         | $\vdash$     |          | 20             | $\dashv$ | $\dashv$ | +       | +        | +            | +       | +       | +                                       |
| 10           | 21       | =        | -               | _ | $\vdash$        | $\vdash$        | 一        |   | ┼╌╏             | -         |     |          | 71       |                     | +        | +       | +                                  | -                  | +                       |           | <u> </u>     | 1        | 21             |          | $\dashv$ | +       | +        | +            |         | +       | $\vdash$                                |
| 10           | 22       | ┝▔       |                 |   | H               | $\vdash$        | $\dashv$ |   | $\vdash$        |           |     |          | 72       | $\vdash$            | +        | +       | +                                  | _                  | +                       | -         |              | + 1      | 22             | $\dashv$ | $\dashv$ | +       | +        | +            | +       | +       | +                                       |
| 11           | 23       | ╘        | -               |   |                 | $\dashv$        | $\neg$   |   | +               | $\dashv$  |     |          | 73       | $\vdash$            | +        | +       | +                                  | $\vdash$           | ++                      |           | $\vdash$     | 1        | 23             |          | $\dashv$ | +       | ╅        | ┰            | +       | +       | +                                       |
|              | 24       | ┢╌       |                 | _ | $\vdash$        | $\Box$          | $\dashv$ |   | ╁               | -         |     |          | 74       | $\vdash$            | +        | +       | +                                  | _                  | ++                      | -         |              | 1        | 24             | $\dashv$ | $\dashv$ | +       | +        | +-           | +       | +       | T                                       |
| 12           | 25       | =        | П               |   | П               |                 | T        |   | $\Box$          | $\exists$ |     |          | 75       | $\vdash$            | 十        | 十       | +                                  |                    | 1                       | 7         |              | 1        | 25             |          |          | $\top$  | 十        | $\top$       | $\top$  | +       | T                                       |
| 13           | 26       | =        |                 | _ | П               |                 | T        |   | $\Box$          | $\exists$ |     |          | 76       |                     |          | 十       | $\Box$                             |                    | $\top$                  | 7         |              | 1        | 26             | _        | 一        | $\top$  | $\top$   | T            | $\top$  | $\top$  | $\Box$                                  |
|              | 27       | Т        | П               |   | П               | П               |          |   | $\Box$          |           |     |          | 77       |                     | 十        | Τ       | $\Box$                             |                    | $\top$                  |           |              | 1        | 27             |          |          |         | T        | T            |         | T       | $\Box$                                  |
| _            | 28       |          |                 |   |                 |                 |          |   |                 |           |     |          | 78       |                     | T        | Τ       | 17                                 |                    | $\top$                  |           |              | 1        | 28             |          | <u> </u> |         |          |              |         | 1       | $\Box$                                  |
|              | 29       |          |                 |   |                 |                 |          |   |                 |           |     |          | 79       |                     |          |         | T                                  |                    |                         |           |              | 1        | 29             |          |          | T       | T        | T            | $\top$  | Т       |   |
|              | 30       |          |                 |   | П               |                 |          |   | П               |           |     |          | 80       |                     |          | Т       |                                    |                    |                         |           |              | 1        | 30             |          |          |         |          |              |         | T       |   |
|              | 31       |          |                 |   |                 |                 |          |   |                 |           |     |          | 81       |                     |          |         |                                    |                    |                         |           |              | 1        | 31             |          |          |         | $\perp$  |              | $\perp$ |         |   |
|              | 32       |          |                 |   | Ш               |                 | $\Box$   | _ | $\sqcup$        |           |     |          | 82       | Ш                   | $\perp$  | ┸       |                                    |                    | $\perp \perp$           | _         |              |          | 32             |          |          | $\perp$ | $\perp$  | $\perp$      |         | 丄       |   |
|              | 33       |          |                 |   | Ш               |                 | $\Box$   |   | Ш               | _         |     |          | 83       | $\perp$             | $\perp$  | ┸       |                                    |                    | $\perp \perp$           | _ ::::    |              | 1        | 33             | _        |          |         |          | ᆚ            | _ _     | 丄       | 1                                       |
|              | 34       | Ш        | Ш               |   | Щ               |                 | Ц        |   | $\sqcup$        | _         |     |          | 84       | $\sqcup$            | $\perp$  | $\perp$ | $\sqcup$                           | $\bot$             | $\downarrow \downarrow$ | _         |              |          | 34             |          |          | 4       | _        | $\perp$      | 4       | 丄       | $\bot$                                  |
|              | 35       |          | Ш               |   | Ш               | Ш               | $\Box$   |   | $\sqcup$        | _         |     |          | 85       | $\vdash$            | 4        | 1       | $\sqcup$                           |                    | $\downarrow \downarrow$ | 4         | <u> </u>     | 11       | 35             |          | _        | 4       | 4        | 1            | _       | $\bot$  | Ш                                       |
|              | 36       |          | Щ               |   | Щ               | Щ               |          |   | $\sqcup$        | _         |     |          | 86       | $\sqcup$            |          | +       | $\downarrow \downarrow \downarrow$ |                    | +                       | 4         |              | 1        | 36             |          | $\perp$  | $\bot$  | 4        | 4            | _       | +       | $\sqcup$                                |
|              | 37       |          | Щ               |   |                 |                 | $\dashv$ |   | $\sqcup$        | _         |     |          | 87       | $\vdash \downarrow$ | $\perp$  | $\bot$  | $\sqcup$                           | $oldsymbol{\perp}$ | +                       |           | <u> </u>     | <u> </u> | 37             |          | _+       | 4-      | 4        | +            | 4       | ╄       | 44                                      |
|              | 38       | <u> </u> |                 |   | $\sqcup$        | -               | _        |   | +               | _         |     |          | 88       | $\vdash$            | +        | +       | +                                  | _                  | 1.1                     |           |              |          | 38             |          |          | -       | +        | 4            | +       | +       | +                                       |
|              | 39       | <u> </u> | $\vdash \vdash$ |   | $\vdash \vdash$ | $\vdash \vdash$ | $\dashv$ |   | $\vdash$        |           |     |          | 89       | $\vdash$            | +        | -       | +-                                 |                    | +-+                     |           | <u> </u>     | +1       | 39             | _        |          | +       | +        | +            | +       | +       | +                                       |
|              | 40       | H        | $\vdash$        |   | $\vdash \vdash$ | $\vdash$        |          | _ | +-              |           |     |          | 90       | $\vdash$            | +        | +       | +                                  |                    | ++                      | -         | <u> </u>     |          | 10             |          |          | +       | +        | +            | +       | +       | $\dashv$                                |
| -            | 41       | $\vdash$ | $\vdash \vdash$ |   | $\vdash \vdash$ | $\vdash$        |          | _ | +               |           |     |          | 91       | $\vdash$            | +        | +       | +                                  | -+-                | ++                      | -         |              |          | 11             |          | +        | +       | +        | +            | +       | +       | ┼┤                                      |
|              | 42<br>43 | $\vdash$ | $\vdash \vdash$ |   | ├┤              | $\vdash \dashv$ |          |   | $\vdash$        | $\dashv$  |     |          | 92<br>93 | $\vdash$            | +        | +       | +                                  | -                  | ++                      |           | <u> </u>     |          | 13             | $\dashv$ | +        | +       | +        | +            | +       | +       | +                                       |
|              |          |          | $\vdash$        |   | $\vdash \vdash$ | $\vdash$        | $\dashv$ |   | +               | -         |     |          | 94       | $\vdash$            | +        | +       | +                                  | +                  | ++                      |           | <del> </del> |          | 14             |          | $\dashv$ | +       | $\dashv$ | +            | ┰       | +       | ┼┤                                      |
| <del> </del> | 44<br>45 | -        | $\vdash \vdash$ |   | ├─┤             | $\vdash \vdash$ | $\dashv$ |   | ╂═┤             | $\dashv$  |     |          | 95       | $\vdash$            | +        | +       | +                                  | -+-                | ++                      | $\dashv$  |              |          | 15             | $\dashv$ | $\dashv$ | +       | +-       | +            | +       | +       | ++                                      |
| <u> </u>     | 46       | $\vdash$ | $\vdash \vdash$ | _ | $\vdash$        | $\vdash \dashv$ |          | - | +               | $\dashv$  |     |          | 96       | $\vdash \vdash$     | +        | +-      | + +                                |                    | ++                      | $\dashv$  | $\vdash$     |          | 16             |          | +        | +       | +        | +            | +       | +       | ++                                      |
| <b></b>      | 47       | $\vdash$ |                 |   | $\vdash \vdash$ | $\vdash$        | $\dashv$ |   | +               | $\dashv$  |     |          | 97       | $\vdash$            | +        | ╁       | +                                  | +                  | ++                      | $\dashv$  | $\vdash$     |          | <del>1</del> 7 |          | $\dashv$ | +       | +        | +            | +       | +       | +                                       |
|              | 48       | $\vdash$ | $\vdash$        |   | $\vdash$        | -               | -        |   | ++              | -         |     |          | 98       | $\vdash \vdash$     | +        | +       |                                    |                    | ++                      | $\exists$ | -            | 1        | 18             | $\dashv$ |          | 十       | +        | +            | +       | +       | $\dashv$                                |
|              | 49       | 1        | H               |   | $\vdash$        |                 | $\dashv$ |   | $\forall$       | $\dashv$  |     |          | 99       | $\vdash$            | +        | $\top$  | +                                  | _                  | 1-1                     | $\dashv$  |              |          | 19             |          |          | $\top$  | $\dashv$ | +            | $\top$  | +       | $\dagger \exists$                       |
| <u> </u>     | 50       | _        | $\vdash \vdash$ |   | H               | $\vdash$        | $\neg$   |   | †               | $\dashv$  |     |          | 100      | $\vdash$            | $\dashv$ | $\top$  | +                                  | 十                  | ++                      | <b>-</b>  |              | 1        | 50             | $\dashv$ | $\dashv$ | +       | $\top$   | $\dagger$    | $\top$  | 十       | + -                                     |
| Щ.           | <u> </u> |          | ш               |   |                 | ш               |          |   | 4               | :         | ::: |          |          |                     |          |         |                                    |                    |                         |           |              |          |                |          |          |         | Щ.,      |              |         |         | لــــــــــــــــــــــــــــــــــــــ |